



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/892,367	06/27/2001	Paul England	MSFT-0249/148565.1	2363
41505	7590	01/13/2005	EXAMINER	
WOODCOCK WASHBURN LLP ONE LIBERTY PLACE - 46TH FLOOR PHILADELPHIA, PA 19103			NALVEN, ANDREW L	
			ART UNIT	PAPER NUMBER

2134

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/892,367	Applicant(s) ENGLAND ET AL.	
	Examiner Andrew L Nalven	Art Unit 2134	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☒ Claim(s) 10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/25/02</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-33 are pending.

Claim Objections

2. Claim 10 is objected to because of the following informalities: Claim 10 contains the type "decompress" and should read as "decompressed." Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-4, 6-8, 9-12, 14-17, 19-22, 24-27, and 29-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Yoshiura et al US Patent No. 6,157,720.

Yoshiura discloses method and apparatus for data encryption.

5. With regards to claims 1, 14, and 24, Yoshiura teaches a decryption element for decrypting the content based at least in part on a content key (Yoshiura, column 8 lines

Art Unit: 2134

15-32, work key) and a decompression element for decompressing the content based at least in part on the content key (Yoshiura, column 8 lines 33-50, compression includes the correspondence changing portion, column 5 lines 53-67, correspondence changing portion uses the work key) wherein the content key is employed to decrypt the content and also to decompress the content (Yoshiura, column 5 lines 53-67, column 8 lines 15-32, both use work key).

6. With regards to claims 2, 15, and 25, Yoshiura teaches a decryption element having an input for receiving the encrypted compressed content (Yoshiura, column 8 lines 15-16, compressed and encrypted text), the decryption element for decrypting the encrypted compressed content based at least in part on a content key to result in decrypted compressed content (Yoshiura, column 8 lines 17-18, work key as parameter), and having an output for producing the decrypted compressed content (Yoshiura, column 8 lines 28-32, compressed text), a decompression element having an input for receiving the decrypted compressed content (Yoshiura, column 8 lines 33-35), the decompression element for decompressing the decrypted compressed content based at least in part on the content key to result in decrypted decompressed content (Yoshiura, column 8 lines 37-40, column 5 lines 53-67), and having an output for producing the decrypted decompressed content (Yoshiura, column 8 lines 65-67, overall data is processed) wherein a content thief obtains the decrypted compressed content from the output of the decryption element cannot decompress the obtained decrypted compressed content by way of another decompression element without the content key (Yoshiura, column 6 lines 29-40).

Art Unit: 2134

7. With regards to claims 3, 11, 16, 21, 26, and 31, Yoshiura teaches the compression/decompression element having a number of adjustable parameters and wherein the decompression element employs the content key as at least one of the adjustable parameters (Yoshiura, column 5 lines 53-67).
8. With regards to claims 4, 12, 17, 22, 27, and 32, Yoshiura teaches the decompression element including an internal representation having DCT coefficients of macroblocks and wherein the coefficients are de-scrambled and de-noised according to the content key (Yoshiura, column 5 lines 44-64, coefficients created using work key).
9. With regards to claim 6, Yoshiura teaches the decryption element supplying the content key to the decompression element (Yoshiura, column 8 lines 59-64).
10. With regards to claims 7-8, Yoshiura teaches the decompression element includes the decryption element or the decryption element includes the decompression element (Yoshiura, column 6 lines 47-52).
11. With regards to claims 9, 19, and 29, Yoshiura teaches an encryption element for encrypting the content based at least in part on a content key (Yoshiura, column 4 lines 38-47, work key) and a compression element for compressing the content based at least in part on the content key (Yoshiura, column 4 lines 5-24, work key) wherein the content key is employed to encrypt the content and also to compress the content (Yoshiura, column 4 lines 55-59).
12. With regards to claims 10, 20, and 30, Yoshiura teaches a compression element having an input for receiving the content (Yoshiura, column 4 lines 16-21), the compression element for compressing the content based at least in part on a content

Art Unit: 2134

key to result in compressed content, and having an output for producing compressed content (Yoshiura, column 4 lines 5-15), an encryption element having an input for receiving the compressed content (Yoshiura, column 4 lines 48-49), the encryption element for encrypting the compressed content based at least in part on the content key to result in encrypted compressed content (Yoshiura, column 4 lines 48-58, work key), and having an output for producing the encrypted compressed content (Yoshiura, column 4 lines 55-58) wherein the encrypted compressed content from the output of the encryption element cannot be decompressed without the content key (Yoshiura, column 6 lines 29-40).

Claim Rejections - 35 USC § 103

13. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

14. Claims 5, 13, 18, 23, 28, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoshiura et al US Patent No. 6,157,720 in view of Watney US Patent No. 5,930,398. Watney discloses a method for determining a quantizing factor for multi-generation data compression/decompression processes.

15. With regards to claims 5, 13, 18, 23, 28, and 33, Yoshiura, as described above, fails to teach the decompression element including a quantizer for performing a lossy

Art Unit: 2134

quantization. Watney teaches teach the decompression element including a quantizer for performing a lossy quantization (Watney, column 3 lines 36-47). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to utilize Watney's quantization method with Yoshiura's encryption apparatus because it offers the advantage of providing compression and decompression of data while limiting data degradation (Watney, column 3 lines 22-35).

Conclusion

16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

17. Golchikov US PG Pub 2002/0112158 discloses an executable file protection system.

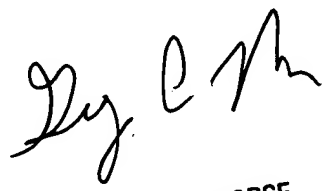
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew L Nalven whose telephone number is 571 272 3839. The examiner can normally be reached on Monday - Thursday 8-6, Alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 571 272 3838. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2134

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Andrew Nalven



GREGORY MORSE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100